RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: US/10/123,383
Source: IFW0
Date Processed by STIC: 12-20-04

ENTERED

IFWO

RAW SEQUENCE LISTING DATE: 12/20/2004
PATENT APPLICATION: **US/10/723,383** TIME: 12:05:08

Input Set : **A:\-29-2.app**
Output Set: **N:\CRF4\12202004\J723383.raw**

<110> APPLICANT: Nasoff, Marc
Deveraux, Quinn L.
Knee, Deborah A.
Aza-Blanc, Pedro
Hampton, Garret M.
Wagner, Klaus
IRM LLC
<120> TITLE OF INVENTION: Methods and Compositions for Inducing Apoptosis in Cancer Cells
<130> FILE REFERENCE: 021288-002920US
<140> CURRENT APPLICATION NUMBER: US 10/723,383
<141> CURRENT FILING DATE: 2003-11-25
<150> PRIOR APPLICATION NUMBER: US 60/429,842
<151> PRIOR FILING DATE: 2002-11-27
<150> PRIOR APPLICATION NUMBER: US 448,960
<151> PRIOR FILING DATE: 2003-02-21
<150> PRIOR APPLICATION NUMBER: US 60/494,714
<151> PRIOR FILING DATE: 2003-08-12
<150> PRIOR APPLICATION NUMBER: US 60/504,901
<151> PRIOR FILING DATE: 2003-09-22
<160> NUMBER OF SEQ ID NOS: 15
<170> SOFTWARE: PatentIn Ver. 2.1
<210> SEQ ID NO: 1
<211> LENGTH: 64
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence:Baculovirus Inhibitory Repeat (BIR) region motif conserved residue consensus sequence
<220> FEATURE:
<221> NAME/KEY: MOD_RES
<222> LOCATION: (2)..(24)
<223> OTHER INFORMATION: Xaa = any amino acid, Xaa at positions 22-24 may be present or absent
<220> FEATURE:
<221> NAME/KEY: MOD_RES
<222> LOCATION: (26)..(36)
<223> OTHER INFORMATION: Xaa = any amino acid
<220> FEATURE:
<221> NAME/KEY: MOD_RES
<222> LOCATION: (38)..(39)
<223> OTHER INFORMATION: Xaa = any amino acid

RAW SEQUENCE LISTING DATE: 12/20/2004
PATENT APPLICATION: **US/10/723,383** TIME: 12:05:08

Input Set : **A:\-29-2.app**
Output Set: **N:\CRF4\12202004\J723383.raw**

61 <220> FEATURE:
62 <221> NAME/KEY: MOD_RES
63 <222> LOCATION: (41)..(56)
64 <223> OTHER INFORMATION: Xaa = any amino acid
66 <220> FEATURE:
67 <221> NAME/KEY: MOD_RES
68 <222> LOCATION: (58)..(63)
69 <223> OTHER INFORMATION: Xaa = any amino acid
71 <400> SEQUENCE: 1
W--> 72 **Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa**
73 1 5 10 15
75 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa Xaa Xaa Xaa
76 20 25 30
78 Xaa Xaa Xaa Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
79 35 40 45
81 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Xaa Xaa Cys
82 50 55 60
85 <210> SEQ ID NO: 2
86 <211> LENGTH: 359
87 <212> TYPE: DNA
88 <213> ORGANISM: Artificial Sequence
90 <220> FEATURE:
91 <223> OTHER INFORMATION: Description of Artificial Sequence:anti-DR5
92 Antibody A light chain variable region
94 <400> SEQUENCE: 2
95 gacattgcga tgacccagtc tcacaagttc atgtccacat tagtgggaga cagggtcagc 60
96 atcacctgca aggccagtca ggatgtgaat actgctatag cctggtatca acaaaaacca 120
97 gggcaatctc ctaaactact gatttactgg gcatccaccc ggcacactgg agtccctgat 180
98 cgcttcacag gcagtggatc tgggacagat tatactctca ccatcagcag tatggaggct 240
99 gaagatgctg ccacttatta ctgccagcag tggagtagta acccgctcac gttcggtgct 300
100 gggaccaagc tggagctgaa acgggctgat gctgcaccaa ctgtatccat cttcccacc 359
103 <210> SEQ ID NO: 3
104 <211> LENGTH: 360
105 <212> TYPE: DNA
106 <213> ORGANISM: Artificial Sequence
108 <220> FEATURE:
109 <223> OTHER INFORMATION: Description of Artificial Sequence:anti-DR5
110 Antibody A heavy chain variable region
112 <400> SEQUENCE: 3
113 caggcaaagg tccagctgca gcagtctgga gctgagctgg tgaaacccgg ggcatcagtg 60
114 aagctgtcct gcaaggcttc tggctacacc ttcactgact atactataca ctgggtaaag 120
115 cagaggtctg gacagggtct tgagtggatt gggtggtttt accctggagg tggttatata 180
116 aaatacaatg agaaattcaa ggacagggcc acattgactg cggacaaatc ctccaacaca 240
117 gtctatatgg agcttagtcg attgacatct gaaggctctg cggtctattt ctgtgcaaga 300
118 cacgaagagg gcatctattt tgactactgg ggccaaggca ccactctcac agtctcctca 360
121 <210> SEQ ID NO: 4
122 <211> LENGTH: 118
123 <212> TYPE: PRT
124 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING DATE: 12/20/2004
PATENT APPLICATION: **US/10/723,383** TIME: 12:05:08

Input Set : **A:\-29-2.app**
Output Set: **N:\CRF4\12202004\J723383.raw**

```
126 <220> FEATURE:
127 <223> OTHER INFORMATION: Description of Artificial Sequence:anti-DR5
128       Antibody A heavy chain subgroup B variable region
130 <400> SEQUENCE: 4
131 Lys Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ala
132   1               5                  10                  15
134 Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
135              20                  25                  30
137 Thr Ile His Trp Val Lys Gln Arg Ser Gly Gln Gly Leu Glu Trp Ile
138          35                  40                  45
140 Gly Trp Phe Tyr Pro Gly Gly Gly Tyr Ile Lys Tyr Asn Glu Lys Phe
141      50                  55                  60
143 Lys Asp Arg Ala Thr Leu Thr Ala Asp Lys Ser Ser Asn Thr Val Tyr
144  65                  70                  75                  80
146 Met Glu Leu Ser Arg Leu Thr Ser Glu Gly Ser Ala Val Tyr Phe Cys
147                  85                  90                  95
149 Ala Arg His Glu Glu Gly Ile Tyr Phe Asp Tyr Trp Gly Gln Gly Thr
150              100                 105                 110
152 Thr Leu Thr Val Ser Ser
153          115
156 <210> SEQ ID NO: 5
157 <211> LENGTH: 109
158 <212> TYPE: PRT
159 <213> ORGANISM: Artificial Sequence
161 <220> FEATURE:
162 <223> OTHER INFORMATION: Description of Artificial Sequence:anti-DR5
163       Antibody A kappa light chain subgroup 5 variable
164       region
166 <400> SEQUENCE: 5
167 Asp Ile Ala Met Thr Gln Ser His Lys Phe Met Ser Thr Leu Val Gly
168   1               5                  10                  15
170 Asp Arg Val Ser Ile Thr Cys Lys Ala Ser Gln Asp Val Asn Thr Ala
171              20                  25                  30
173 Ile Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile
174          35                  40                  45
176 Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Asp Arg Phe Thr Gly
177      50                  55                  60
179 Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Met Glu Ala
180  65                  70                  75                  80
182 Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro Leu
183                  85                  90                  95
185 Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys Arg Ala
186              100                 105
189 <210> SEQ ID NO: 6
190 <211> LENGTH: 23
191 <212> TYPE: DNA
192 <213> ORGANISM: Artificial Sequence
194 <220> FEATURE:
195 <223> OTHER INFORMATION: Description of Artificial Sequence:synthetic siRNA
```

RAW SEQUENCE LISTING DATE: 12/20/2004
PATENT APPLICATION: **US/10/723,383** TIME: 12:05:08

Input Set : **A:\-29-2.app**
Output Set: **N:\CRF4\12202004\J723383.raw**

```
     196       ttds(N)19TT
     198 <220> FEATURE:
     199 <221> NAME/KEY: modified_base
     200 <222> LOCATION: (3)..(21)
     201 <223> OTHER INFORMATION: n = any nucleotide
     203 <400> SEQUENCE: 6
W--> 204 ttnnnnnnnn nnnnnnnnnn ntt                                          23
     207 <210> SEQ ID NO: 7
     208 <211> LENGTH: 354
     209 <212> TYPE: DNA
     210 <213> ORGANISM: Artificial Sequence
     212 <220> FEATURE:
     213 <223> OTHER INFORMATION: Description of Artificial Sequence:alternate
     214       sequence for anti-DR5 Antibody A heavy chain
     215       variable region
     217 <400> SEQUENCE: 7
     218 aaggtccagc tgcagcagtc tggagctgag ctggtgaaac ccggggcatc agtgaagctg 60
     219 tcctgcaagg cttctggcta caccttcact gactatacta tacactgggt aaagcagagg 120
     220 tctggacagg gtcttgagtg gattgggtgg ttttaccctg gaggtggtta tataaaatac 180
     221 aatgagaaat tcaaggacag ggccacattg actgcggaca aatcctccaa cacagtctat 240
     222 atggagctta gtcgattgac atctgaagac tctgcggtct atttctgtgc aagacacgaa 300
     223 gagggcatct attttgacta ctggggccaa ggcaccactc tcacagtctc ctca       354
     226 <210> SEQ ID NO: 8
     227 <211> LENGTH: 118
     228 <212> TYPE: PRT
     229 <213> ORGANISM: Artificial Sequence
     231 <220> FEATURE:
     232 <223> OTHER INFORMATION: Description of Artificial Sequence:alternate
     233       sequence for anti-DR5 Antibody A heavy chain
     234       variable region
     236 <400> SEQUENCE: 8
     237 Lys Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ala
     238   1               5                  10                  15
     240 Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
     241              20                  25                  30
     243 Thr Ile His Trp Val Lys Gln Arg Ser Gly Gln Gly Leu Glu Trp Ile
     244          35                  40                  45
     246 Gly Trp Phe Tyr Pro Gly Gly Gly Tyr Ile Lys Tyr Asn Glu Lys Phe
     247      50                  55                  60
     249 Lys Asp Arg Ala Thr Leu Thr Ala Asp Lys Ser Ser Asn Thr Val Tyr
     250  65                  70                  75                  80
     252 Met Glu Leu Ser Arg Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys
     253                  85                  90                  95
     255 Ala Arg His Glu Glu Gly Ile Tyr Phe Asp Tyr Trp Gly Gln Gly Thr
     256              100                 105                 110
     258 Thr Leu Thr Val Ser Ser
     259          115
     262 <210> SEQ ID NO: 9
     263 <211> LENGTH: 312
```

RAW SEQUENCE LISTING DATE: 12/20/2004
PATENT APPLICATION: **US/10/723,383** TIME: 12:05:08

Input Set : **A:\-29-2.app**
Output Set: **N:\CRF4\12202004\J723383.raw**

```
264 <212> TYPE: DNA
265 <213> ORGANISM: Artificial Sequence
267 <220> FEATURE:
268 <223> OTHER INFORMATION: Description of Artificial Sequence:alternate
269       sequence for anti-DR5 Antibody A light chain
270       variable region
272 <400> SEQUENCE: 9
273 gacattgtga tgacccagtc tcacaagttc atgtccacat cagtgggaga cagggtcagc 60
274 atcacctgca aggccagtca ggatgtgaat actgctatag cctggtatca acaaaaacca 120
275 gggcaatctc ctaaactact gatttactgg gcatccaccc ggcacactgg agtccctgat 180
276 cgcttcacag gcagtggatc tgggacagat tatactctca ccatcagcag tgtgcaggct 240
277 gaagacctgg cactttatta ctgtcagcaa cattatacca ctccattcac gttcggctcg 300
278 gggacaaagt tg                                                    312
281 <210> SEQ ID NO: 10
282 <211> LENGTH: 104
283 <212> TYPE: PRT
284 <213> ORGANISM: Artificial Sequence
286 <220> FEATURE:
287 <223> OTHER INFORMATION: Description of Artificial Sequence:alternate
288       sequence for anti-DR5 Antibody A light chain
289       variable region
291 <400> SEQUENCE: 10
292 Asp Ile Val Met Thr Gln Ser His Lys Phe Met Ser Thr Ser Val Gly
293   1               5                  10                  15
295 Asp Arg Val Ser Ile Thr Cys Lys Ala Ser Gln Asp Val Asn Thr Ala
296             20                  25                  30
298 Ile Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile
299         35                  40                  45
301 Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Asp Arg Phe Thr Gly
302     50                  55                  60
304 Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Val Gln Ala
305 65                  70                  75                  80
307 Glu Asp Leu Ala Leu Tyr Tyr Cys Gln Gln His Tyr Thr Thr Pro Phe
308                 85                  90                  95
310 Thr Phe Gly Ser Gly Thr Lys Leu
311             100
314 <210> SEQ ID NO: 11
315 <211> LENGTH: 19
316 <212> TYPE: DNA
317 <213> ORGANISM: Artificial Sequence
319 <220> FEATURE:
320 <223> OTHER INFORMATION: Description of Artificial Sequence:siPAK1-0 siRNA
321       directed against PAK1
323 <400> SEQUENCE: 11
324 agagctgcta cagcatcaa                                            19
327 <210> SEQ ID NO: 12
328 <211> LENGTH: 19
329 <212> TYPE: RNA
330 <213> ORGANISM: Artificial Sequence
```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 12/20/2004
PATENT APPLICATION: **US/10/723,383** TIME: 12:05:09

Input Set : **A:\-29-2.app**
Output Set: **N:\CRF4\12202004\J723383.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23
Seq#:1; Xaa Pos. 24,25,27,28,29,30,31,32,33,34,35,36,38,39,41,42,43,44,45
Seq#:1; Xaa Pos. 46,47,48,49,50,51,52,53,54,56,56,58,59,60,61,62,63
Seq#:6; N Pos. 3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21

VERIFICATION SUMMARY DATE: 12/20/2004
PATENT APPLICATION: **US/10/723,383** TIME: 12:05:09

Input Set : **A:\-29-2.app**
Output Set: **N:\CRF4\12202004\J723383.raw**

L:72 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
M:341 Repeated in SeqNo=1
L:204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0